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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,935	03/26/2004	Yo Tsurumi	59558.00022	6426
32294 COLUDE CAN	7590 08/29/2007 DEDC & DEMOSEV I I B	EXAMINER		
SQUIRE, SANDERS & DEMPSEY L.L.P ·14TH FLOOR			HOLMES, JUSTIN K	
8000 TOWERS	S CRESCENT ENER, VA 22182		ART UNIT	PAPER NUMBER
1130113 CON	INDR, VA 22102		3681	
			MAIL DATE	DELIVERY MODE
			08/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/809,935	TSURUMI, YO			
	Office Action Summary	Examiner	Art Unit			
		Justin K. Holmes	3681			
Period fo	The MAILING DATE of this communication app	pears on the cover sheet with the c	correspondence address			
	, ,	VIC CET TO EVEIDE AMONTH	(C) OR THERE (20) DAVE			
WHIC - Exte after - If NC - Failu Any	CORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Do ensions of time may be available under the provisions of 37 CFR 1.1 r SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period of ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 14 Ju	<u>une 2007</u> .				
2a)⊠	This action is FINAL. 2b) This action is non-final.					
3)						
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	tion of Claims					
4)⊠	4)⊠ Claim(s) <u>1-11 and 13-16</u> is/are pending in the application.					
	4a) Of the above claim(s) 2,4,7-11,13,15 and 1	6 is/are withdrawn from consider	ation.			
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) 1,3,5,6 and 14 is/are rejected.					
•	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/o	r election requirement.				
Applicat	tion Papers					
	The specification is objected to by the Examine					
10)🛛	Note: The drawing(s) filed on 15 September 2006 is/are: a) accepted or b) □ objected to by the Examiner.					
	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correct					
11)[The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.			
Priority	under 35 U.S.C. § 119					
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	ı)-(d) or (f).			
) All b) Some * c) None of:					
	1. Certified copies of the priority document	s have been received.				
	2. Certified copies of the priority document	s have been received in Applicat	ion No			
	3. Copies of the certified copies of the prior	•	ed in this National Stage			
	application from the International Burea					
* ;	See the attached detailed Office action for a list	of the certified copies not receive	∋ 0.			
Attachme	nt(s)					
1) 🔲 Noti	ice of References Cited (PTO-892)	4) Interview Summary				
3) 🔲 Info	ice of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail D 5) Notice of Informal I				
Pap	er No(s)/Mail Date .	6)				

Art Unit: 3681

DETAILED ACTION

1. The Examiner acknowledges receipt of the Amendment filed on June 14, 2007. Claim 12 has been cancelled. Claims 2, 4, 7-11, 13, 15 and 16 have been withdrawn. Claims 1, 3, 5, 6 and 14 are pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Japanese Patent No. 62233540 to Katada et al.

The Katada et al. patent teaches an oscillating inner gearing planetary gear system having an internal gear 8; an external gear 5_1 , 5_2 which meshes with the internal gear 8; an eccentric body 3_1 , 3_2 with oscillatingly rotates the external gear 5_1 , 5_2 ; an input shaft 29; a middle shaft 2 which is arranged at a right angle to the input shaft 29, the middle shaft 2 having an orthogonal gear 28, the orthogonal gear 28 linking the middle shaft 2 to the input shaft 29 at a right angle, wherein the external gear 5_1 , 5_2 is oscillatingly rotated via the input shaft 29, the orthogonal gear 28, the middle shaft 2 and the eccentric body 3_1 , 3_2 . An output member 15 is located in parallel to the middle shaft 2. The output member as broadly recited in the claims is defined as the mounting bolt that is attached to the shaft 16. See Figs. 1 and 3, and pages 5, 7 and 10 of the translated copy of the patent.

Art Unit: 3681

Accordingly, all the elements of claim 1 are anticipated by the Katada et al. patent.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 3, 5, 6 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,699,152 to Tanaka in view of Japanese Patent No. 62233540 to Katada et al.

Regarding Claim 1, the Tanaka patent teaches an oscillating reduction gear 10 having an internal gear 21, external gears 19 that mesh with the internal gear 21, and eccentric members 17a and 17b that rotate to cause the external gears 19 to undergo oscillatory motion. See column 2, lines 45-49 and Fig. 1. An intermediate gear 30 has a large gear 30a that links the intermediate gear 30 with an input gear 25b and input shaft 25. The external gear oscillatingly rotates via the input shaft, the large gear, the middle shaft and the eccentric members. See column 5, lines 19-43, and column 6, lines 1-3 and Fig. 1.

However, the Tanaka patent lacks a teaching of a middle shaft that is arranged at a right angle to the input shaft, the middle shaft having an orthogonal gear, the orthogonal gear linking the middle shaft to the input shaft at a right angle.

Application/Control Number: 10/809,935

Art Unit: 3681

The Katada et al. patent teaches an oscillating inner gearing planetary gear system having an internal gear 8; an external gear 5_1 , 5_2 which meshes with the internal gear 8; an eccentric body 3_1 , 3_2 with oscillatingly rotates the external gear 5_1 , 5_2 ; an input shaft 29; a middle shaft 2 which is arranged at a right angle to the input shaft 29, the middle shaft 2 having an orthogonal gear 28, the orthogonal gear 28 linking the middle shaft 2 to the input shaft 29 at a right angle, wherein the external gear 5_1 , 5_2 is oscillating rotated via the input shaft 29, the orthogonal gear 28, the middle shaft 2 and the eccentric body 3_1 , 3_2 . An output member 15 is located in parallel to the middle shaft 2. The output member as broadly recited in the claims is defined as the mounting bolt that is attached to the shaft 16. See Figs. 1 and 3, and pages 7 and 10 of the translated copy of the patent.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Tanaka patent to include the input shaft arranged at a right angle to the middle shaft as taught in the Katada et al. patent in order to provide a smaller and more compact reduction system. See page 11 of the translation of the Katada et al. patent.

Regarding Claim 3, an eccentric member shaft 17 is disposed apart from the intermediate gear 30. See Fig. 1 of the Tanaka patent.

Regarding Claim 5, a plurality of bearing use holes 12a are provided in the basal disc 12, and a plurality of bearing use holes 14a are provided in the end plate 14. The bearing use holes 12a and 14a are used to hold tapered roller bearings 18 that are used to hold eccentric member shafts 17. Accordingly, a plurality of eccentric member shafts

Art Unit: 3681

17 are taught by the Tanaka patent. The eccentric member shafts 17 have a transmission gear 33 which mesh with a small gear 30b connected to the intermediate gear 30. Accordingly, all of the eccentric member shaft 17 transmission gears 33 mesh with the small gear 30b. Column 2, lines 33-47, and column 3, lines 34-47 and Fig. 1 of the Tanaka patent.

Regarding Claim 6, the intermediate gear 30 has a hollow structure. See Fig. 1 of the Tanaka patent.

Regarding Claim 14, the eccentric member portions 17a and 17b oscillatingly rotate the external gears 19 and the supporting unit 11 is a hollow shaft with a hollow diameter portion 34a of the Tanaka patent.

Response to Arguments

- 6. Applicant's arguments filed June 14, 2007 have been fully considered but they are not persuasive.
- The Applicant on page 6 of the Amendment filed on June 14, 2007 has argued that the rejection of claims 1 and 12 under 35 USC 102(b) in view of Katada should be withdrawn. Specifically, the Applicant has argued that the Katada patent does not teach a middle shaft that is located in parallel to the output member. To the contrary, the Katada patent teaches that a middle shaft 2 is located parallel to the output member 15. the output member 15 is a mounting bolt that is on a parallel axis as the middle shaft 2 and is part of the shaft 16 that is the output of the gear assembly. The rejection of claims 1 and 12 is maintained.

Art Unit: 3681

8. The Applicant on pages 7 and 8 has argued that the rejection of claims 1, 3, 5, 6, 12 and 14 under 35 USC 103(a) as being obvious in view of Tanaka and in view of Katada should be withdrawn. Specifically, the Applicant has argued that the Katada patent does not teach a middle shaft that is located in parallel to the output member. To the contrary, the Katada patent teaches that a middle shaft 2 is located parallel to the output member 15. The output member 15 is a mounting bolt that is on a parallel axis as the middle shaft 2 and is part of the shaft 16 that is the output of the gear assembly. The rejection of claims 1, 3, 5, 6, 12 and 14 is maintained.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 3681

Facsimile Transmission

Submission of your response by facsimile transmission is encouraged. Group 3600's facsimile number is (571) 273-8300. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase a patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as the PTO's mail room processing and delivery time. For a complete list of correspondence not permitted by facsimile transmission, see MPEP 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee which applicant is paying by check should not be submitting by facsimile transmission separately from the check.

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<u> </u>	
(Signature)	

Art Unit: 3681

If your response is submitted by facsimile transmission, you are hereby reminded that the original should be retained as evidence of authenticity (37 CFR 1.4 and MPEP 502.02). Please do not separately mail the original or another copy unless required by the Patent and Trademark Office. Submission of the original response or a follow-up copy of the response after your response has been transmitted by facsimile will only cause further unnecessary delays in the processing of your application; duplicate responses where fees are charged to a deposit account may result in those fees being charged twice.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin K. Holmes whose telephone number is (571) 272-5930. The examiner can normally be reached on 8:00am to 4:30pm Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles A. Marmor can be reached on (571) 272-7095. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3681

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system/ call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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CHARLES A. MARMOR
PERVISORY PATENT EXAMPLE

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